

Industry Partnership for Improved Codes



Agree on problems and potential solutions Work together to implement solutions

Why Training?

Complicated Energy Code Incomplete Compliance

Best Training Group

Industry Association (Building Industry Institute)

Expected Results

Improved Code Compliance

Unexpected Results

Cooperation on other issues Voluntary Programs







Training Format



Purchasing, Construction (VPs, General Superintendents)

2. On-Site Training (half-day for each builder)

General Superintendents + Site Superintendents

Subcontractors

Review/train how to read documentation

Inspect for meeting proper specifications

Review installation quality issues

Demonstrate diagnostics

3. Follow Up On-Site -- 6 Months Later

On-site inspection

More training/diagnostics

Evaluate improvements







Utility Support of Training

- CA Public Goods Funding for Energy Efficiency
- All Investor-Owned Utilities Participating
 Training one element of efficiency programs
- California Peak Problems

Pressure to obtain energy savings immediately Some utilities currently not supporting training Two of Five supporting this year

Public Goods Funding Will Continue

Training will again emerge as common program element





Energy Savings From Training

Six Years of Training

368 Large Production Builder Co.s2,681 people trained92,000 homes effected

Energy Savings

352,000,000 KBtu/year \$3M Annual energy cost savings to consumers

Cost vs. Benefit

Total budget: \$1.85M =\$20.12 per house ANNUAL savings \$2.2M =\$32.11 per house







More Than Code Training

- Understanding of Codes & Quality Issues
- Contractor Scopes of Work

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Beyond code; improve quality
Insulation
Air Sealing
Windows
Mechanical
PVs
www.thebii.org
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Energy Star Homes

Increased efficiency and value Learn to use 3rd Party inspections and diagnostics

Impact

Improve quality
Decrease potential liability







Local Government Initiative



Funded by Southern California Edison

Advisory Committee includes CBIA, CEC, NRDC, EPA, Builders, Building Officials

Community Energy Efficiency Program (CEEP)

Higher efficiency, improved quality homes

Energy Star

CEC tight ducts

Mechanical design

Construction protocols

CHEERS rating (inspections & diagnostics)

Faster plan-check / reduced fees

 Adopted by 24 Local Jurisdictions, over 40 by end of 2001







Code Updates



CEC

NRDC

CBIA

Utilities



Quality / Diagnostic results

Field Performance not Computer Performance

Field verified credits now codified:

Tight ducts

ACCA design/sizing

Tight construction

3rd Party HERS inspections

Possible future credits for improved installations -- insulation Installers involved







Improved Energy Efficiency-Involve Industry



Industry needs to be informed
Uniform enforcement required
Utilities get credit for increased savings

Develop Infrastructure

Protocols, diagnostics, HERS

Benefits

reduced litigation

reduced call-back costs

improved mortgages

product differentiation

Voluntary programs to go at least 10% beyond code

WORK WITH THE INDUSTRY TO MAKE IT HAPPEN



